



# Iowa Influenza Surveillance Network (IISN)

## Influenza-like Illness (ILI) and Other Respiratory Viruses

### Weekly Activity Report

For the week ending October 18, 2014 - Week 42

All data presented in this report are provisional and may change as additional reports are received



#### Quick Stats

Percent of outpatient visits for ILI <sup>1</sup>	0.28 % (baseline 1.7%)
Percent of influenza rapid test positive	2.0% (7/354)
Percent of RSV rapid tests positive	2.3% (2/88)
Percent school absence due to illness <sup>2</sup>	1.87%
Number of schools with ≥10% absence due to illness	0
Influenza-associated hospitalizations <sup>3</sup>	3/2,396 inpatients surveyed
Influenza-associated pediatric mortality	0

<sup>1</sup> ILI: Influenza-like Illness is defined as a fever of ≥100° F as well as cough and/or sore throat.

<sup>2</sup> Percent school absence due to illness are reported through a weekly survey of Iowa sentinel schools

<sup>3</sup> Hospitalizations due to influenza are voluntarily reported through a weekly survey of Iowa sentinel hospitals

#### Iowa Influenza Geographic Spread<sup>2</sup>

No Activity
Sporadic
Local
Regional
Widespread

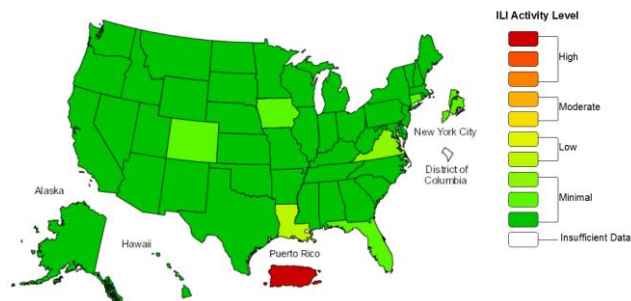
<sup>2</sup>This is based on CDC's activity estimates definition  
[www.cdc.gov/flu/weekly/overview.htm](http://www.cdc.gov/flu/weekly/overview.htm)

#### Iowa statewide activity summary:

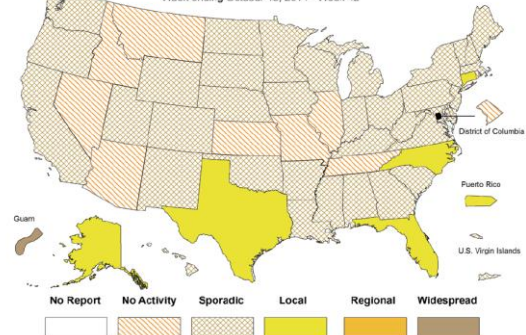
Influenza activity in Iowa remains low. For this reporting week, the State Hygienic Laboratory confirmed two Flu A (H3) cases, two Flu B and one Flu A (subtype pending). The proportion of outpatient visits due to influenza-like illness (ILI) was 0.28 percent which is well below the regional baseline. Three influenza-associated hospitalizations were reported from sentinel hospitals. No schools reported 10 percent or greater absenteeism due to illness. In addition, 10 cases of adenovirus, six cases of parainfluenza virus type 2, two cases of parainfluenza 3, one case of RSV, two cases of hMPV and 36 cases of rhinovirus/enterovirus were reported to IDPH.

#### National activity summary - (CDC):

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet  
2014-15 Influenza Season Week 42 ending Oct 18, 2014



Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists\*  
Week ending October 18, 2014 - Week 42



During week 42 (October 12-18, 2014), influenza activity was low in the United States.

**Viral Surveillance:** Of 8,412 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories during week 42,403 (4.8%) were positive for influenza.

**Novel Influenza A Virus:** One human infection with a novel influenza A virus was reported.

**Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.

**Influenza-associated Pediatric Deaths:** Two influenza-associated pediatric deaths were reported, including one influenza-associated pediatric death that occurred during the 2013-2014 season.

**Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 1.4%, which is below the national baseline of 2.0%. One region reported ILI above their region-specific baseline level. Puerto Rico experienced high ILI activity; one state experienced low ILI activity; New York City and 49 states experienced minimal ILI activity and the District of Columbia had insufficient data.

**Geographic Spread of Influenza:** The geographic spread of influenza in Guam was reported as widespread; Puerto Rico and five states reported local activity; the U.S. Virgin Islands and 36 states reported sporadic activity; and the District of Columbia and nine states reported no influenza activity.

Detailed information can be found online at [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)

#### International activity summary - (WHO):

Globally, influenza activity remained low, with the exception of some tropical countries in the Americas and some Pacific Islands. Detailed information can be found online at [www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/).

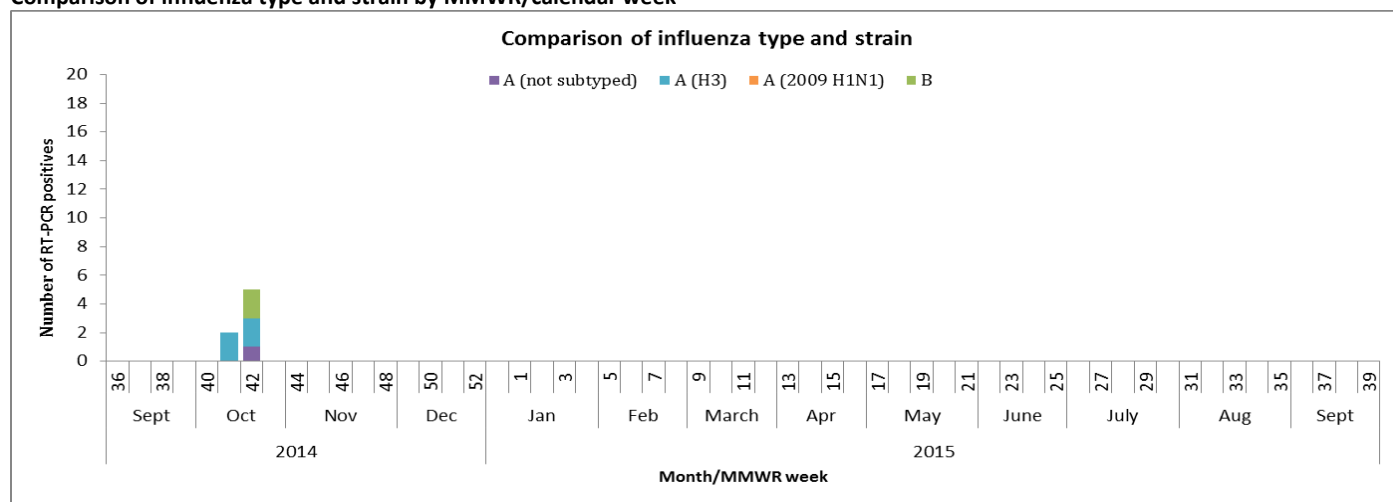
## Laboratory surveillance program:

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

Age Group	CURRENT WEEK - MMWR WEEK 42							YEAR TO DATE (9/1/14 – PRESENT WEEK)					
	Flu A				Flu B	Equiv/Indeterminate	Neg	Flu A				Flu B	Neg
	A (2009 H1N1)	A (H3)	A(H3N2) variant	Subtype Pending				A (2009 H1N1)	A (H3)	A(H3N2) variant	Subtype Pending		
0-4	0(0%)	1(50%)	0(0%)	0(0%)	0(0%)	0(0%)	3(33%)	0(0%)	1(25%)	0(0%)	0(0%)	0(0%)	7(13%)
5-17	0(0%)	1(50%)	0(0%)	1(100%)	0(0%)	0(0%)	1(11%)	0(0%)	2(50%)	0(0%)	1(100%)	0(0%)	6(11%)
18-24	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(22%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	19(35%)
25-49	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(22%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	12(22%)
50-64	0(0%)	0(0%)	0(0%)	0(0%)	2(100%)	0(0%)	1(11%)	0(0%)	1(25%)	0(0%)	0(0%)	2(100%)	8(15%)
>64	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	3(5%)
<b>Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>55</b>

\*Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information  
Only cases of Iowa residents are included

## Comparison of influenza type and strain by MMWR/calendar week

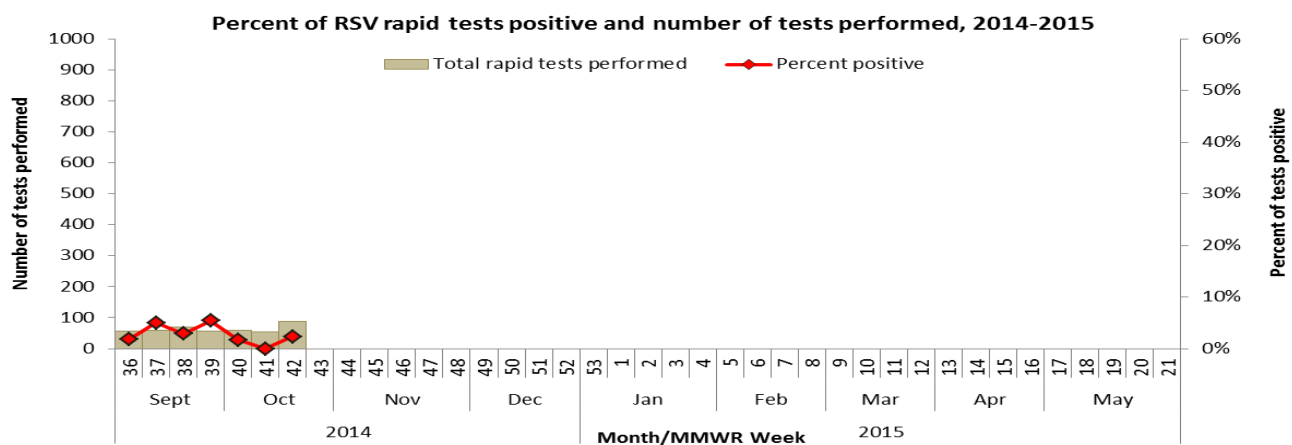
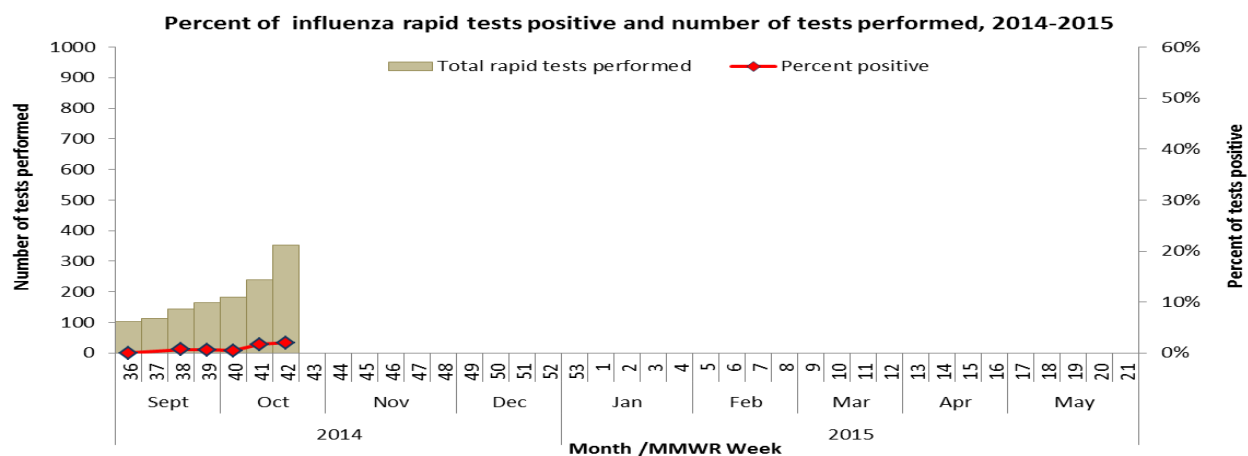


## Rapid influenza and RSV test surveillance:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

REGION*	RAPID ANTIGEN INFLUENZA TESTS					RAPID ANTIGEN RSV TESTS		
	Tested	Flu A	Flu B	Undefined	% Positive	Tested	Positive	% Positive
Region 1	57	0	0	0	3.3	14	1	7.1
Region 2	6	1	0	0	16.7	3	0	0.0
Region 3	29	0	1	0	3.4	7	0	0.0
Region 4	21	0	0	0	0.0	3	0	0.0
Region 5	32	0	0	0	0.0	6	1	16.7
Region 6	209	0	5	0	2.4	55	0	0.0
<b>Total</b>	<b>354</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>2.0</b>	<b>88</b>	<b>2</b>	<b>2.3</b>

\*Region 1: Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2: Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright; Region 3: Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4: Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5: Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6: Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.



### Non-influenza respiratory virus:

**Table 3: Number of positive results for non-influenza respiratory virus isolated by Mercy Dunes in Sioux City and Iowa Methodist Medical Center**

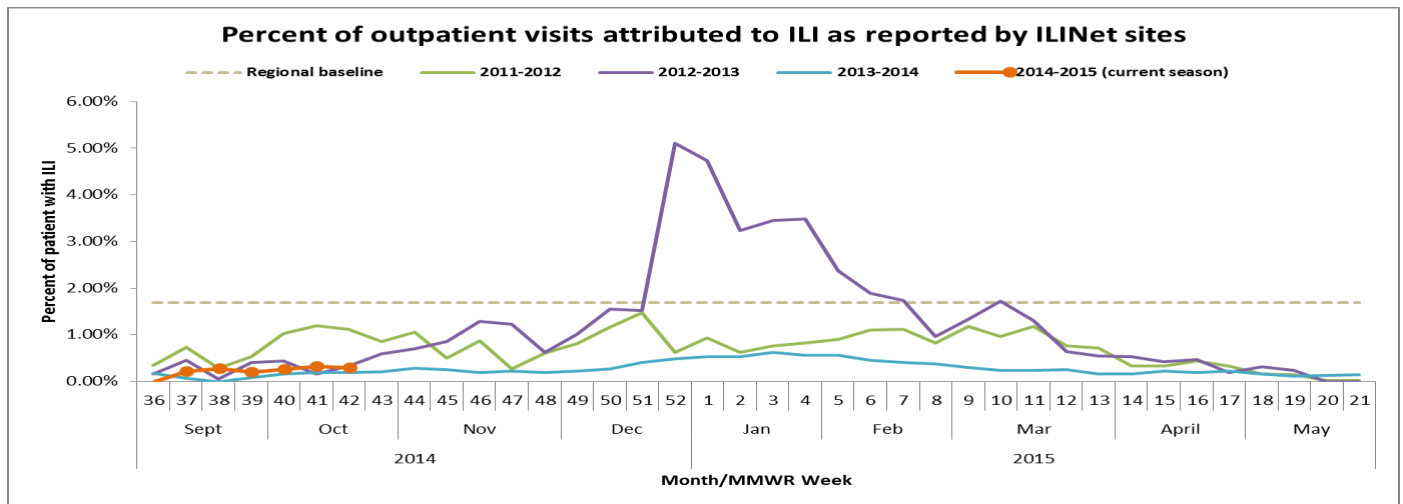
Viruses	CURRENT WEEK	CUMULATIVE (9/1/14 – PRESENT WEEK)
Adenovirus	10	25
Parainfluenza Virus Type 1	0	0
Parainfluenza Virus Type 2	6	25
Parainfluenza Virus Type 3	2	2
Parainfluenza Virus Type 4	0	1
Rhinovirus/Enterovirus	36	232
Respiratory syncytial virus (RSV)	1	2
Human metapneumovirus (hMPV)	2	2
<b>Total</b>	<b>57</b>	<b>289</b>

### Outpatient health care provider surveillance program (ILINet):

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Kemi Oni at 515-725-2136 or [oluwakemi.oni@idph.iowa.gov](mailto:oluwakemi.oni@idph.iowa.gov) for more information.

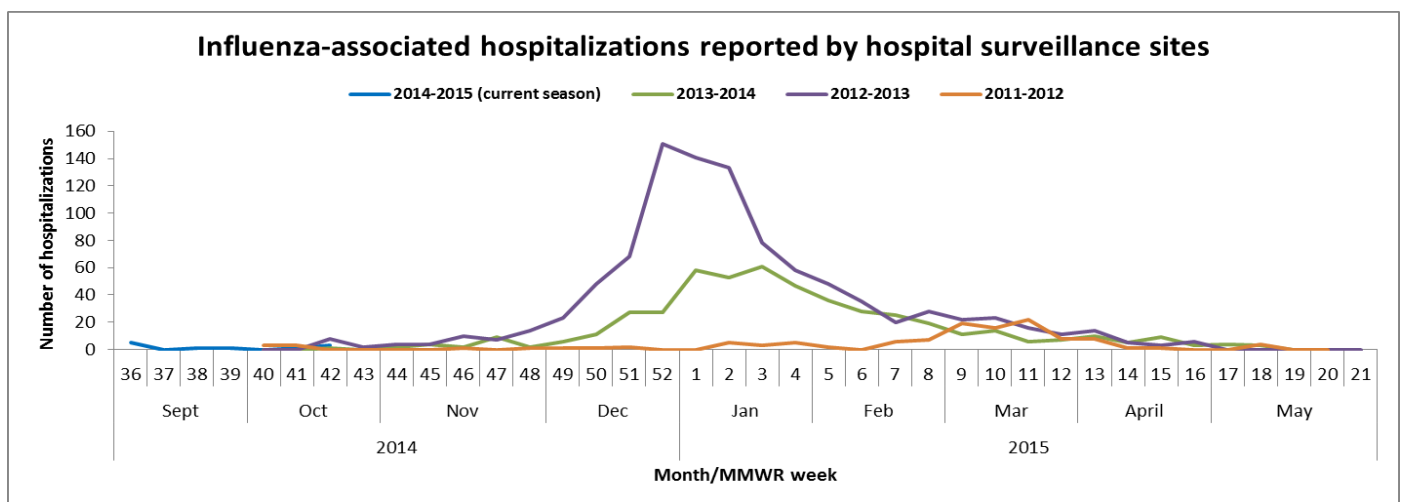
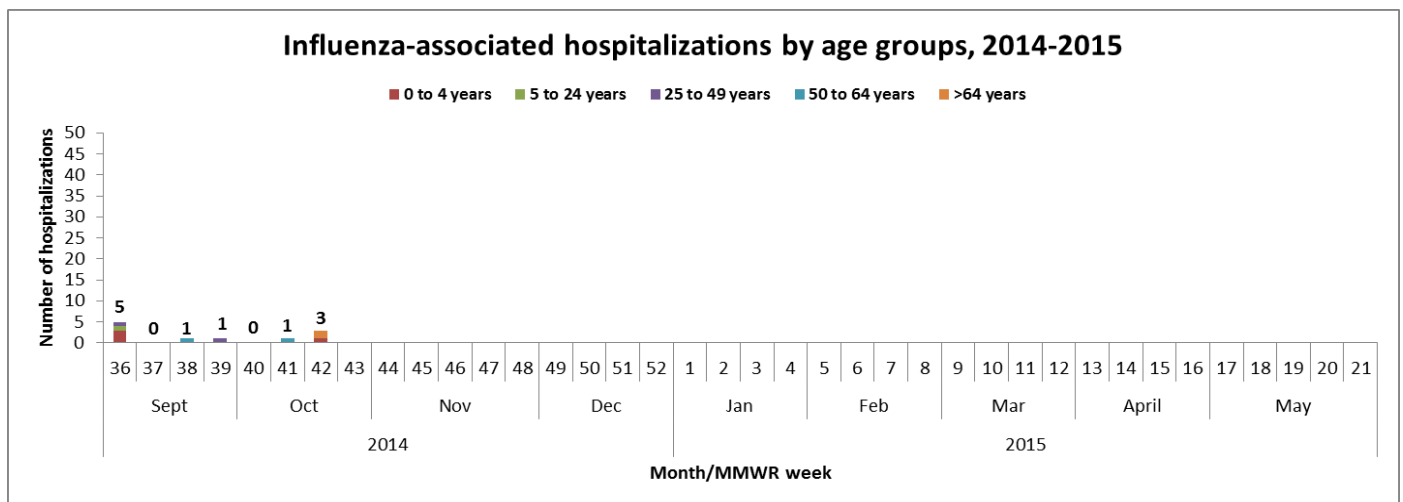
**Table 4: Outpatient visits for influenza-like illness (ILI) – past 3 weeks**

Week	%ILI	Total ILI	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64
Week 40, ending Oct 4	0.25	82	22	52	4	3	1
Week 41, ending Oct 11	0.32	102	24	62	10	4	2
Week 42, ending Oct 18	0.28	95	21	49	14	4	7



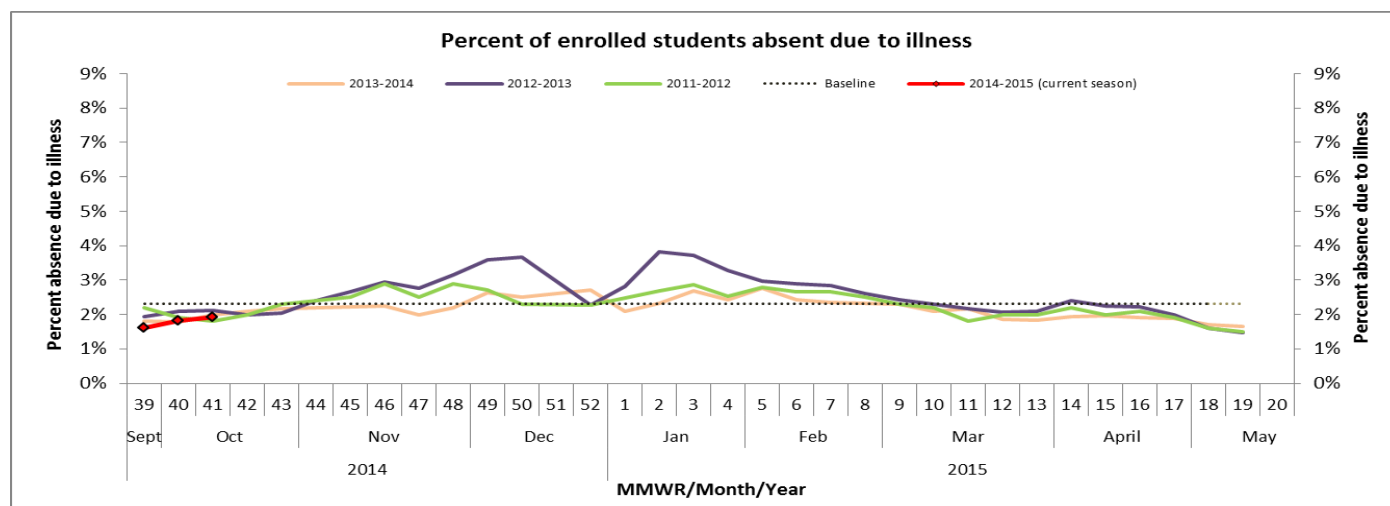
### Influenza-associated hospitalizations:

Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week.



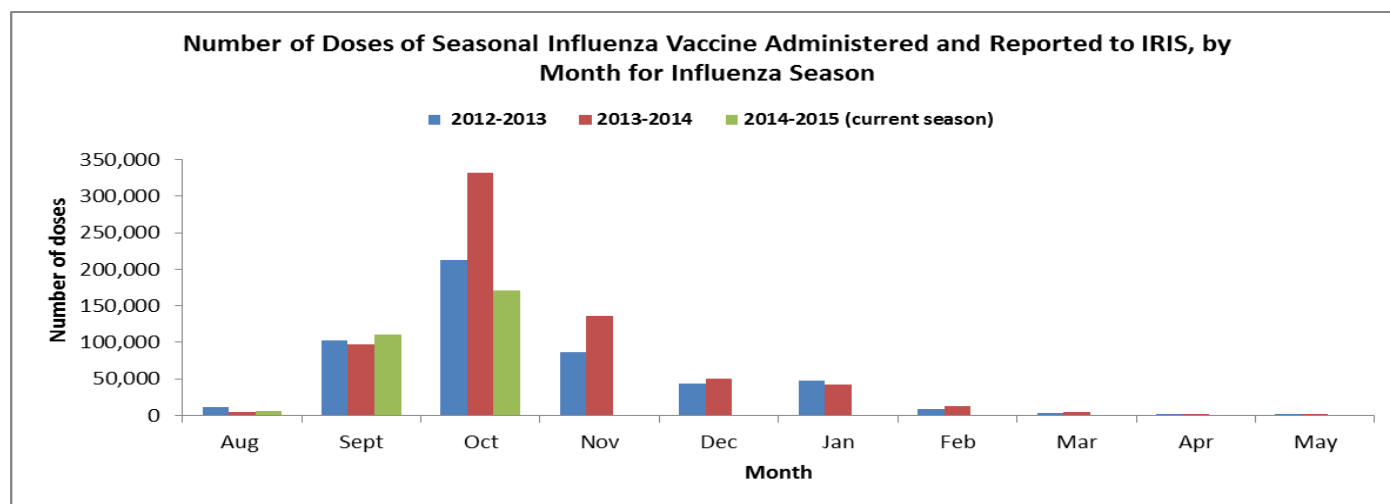
## **School surveillance program:**

Sentinel schools that participate in IISN voluntarily track and report absence due to all illness (including non-influenza illnesses) and the total enrollment each week.



## **Seasonal influenza vaccination:**

Seasonal influenza vaccination data in Iowa is based on doses reported to the Iowa Immunization Registry Information System (IRIS). IRIS is a confidential, computerized, population-based system that tracks immunization for children, adolescents and adults who are seen in a variety of public and private healthcare provider sites throughout the state of Iowa. For more information on the immunization data, contact Kim Tichy, IRIS coordinator at 515-281-4288 or [kimberly.tichy@idph.iowa.gov](mailto:kimberly.tichy@idph.iowa.gov)



Note: The data for the 2014-2015 season is only up to the current week and there is a lag between the vaccine administration date and the date reported to the IRIS. The current season's data will be adjusted as additional data is received.

## **Other resources:**

### **Vaccine:**

Influenza vaccine recommendation: <http://www.idph.state.ia.us/ImmTB/Immunization.aspx?prog=Imm&pg=Flu>

### **Neighboring states' influenza information:**

Illinois: <http://www.idph.state.il.us/flu/surveillance.htm>

Minnesota: <http://www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html>

Missouri: <http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php>

South Dakota: <http://doh.sd.gov/diseases/infectious/flu/>

Wisconsin: [www.dhs.wisconsin.gov/communicable/influenza/surveillance.htm](http://www.dhs.wisconsin.gov/communicable/influenza/surveillance.htm)

Google Flu Trends: <http://www.google.org/flutrends/us/#US-IA>